

ing scenes so bewitching. Each bend in the shore (and bends were the rule, not the exception) seemed to present a more beautiful picture than the last. The finest view of all appeared to be the one directly above Bebek, with its ancient defensive walls and towers and the handsome, new buildings of Robert College crowning the summit of the hill. Only a few birds were seen during the morning hours spent on the college grounds. Flocks of noisy Jackdaws frequently flew overhead. There were seen my first Common Wren (*Troglodytes parvulus*) and my first Blue Titmouse (*Parus ceruleus*) besides the Great Titmouse and female Chaffinch, which were fast becoming old acquaintances. While on the Bosphorus excursion there were seen the Hooded Crow, an Alpine Swift and the Gulls as usual; also more shorebirds than on previous days. Several sizes of them could be distinguished, and they were in flocks numbering from thirty to one hundred, making in the aggregate a thousand or more birds; nearly that number were counted.

Our last contact with the soil of Asia was made upon the trip to Scutari. In a cemetery in which are buried eight thousand soldiers, who died in the Crimean War, a bird was singing blithely his vernal song. It proved to be a male Chaffinch, the first one I had noted. As we sailed into the Sea of Mamora late that day the graceful outlines of Constantinople were tenderly enfolded in the violet-hues of evening, touched here and there by the afterglow of sunset.

FALL MIGRATION RECORDS (1906-1915) AT ANN ARBOR, MICHIGAN.

BY A. D. TINKER AND N. A. WOOD.

The following series of tabulated records represents the combined field-work of Mr. F. O. Novy, the authors and other observers in the vicinity of Ann Arbor, Michigan, during the fall migrations of the years 1906-1915 inclusive. The immediate vicinity of Ann Arbor has been pretty thoroughly worked, but the outlying districts have not received the atten-

tion that they deserve. Washtenaw County, of which Ann Arbor is the county seat, with its large areas of woodland, marsh, cultivated fields and numerous lakes, is rich in bird-life of varied character. However, the various habitats are so scattered that it is very difficult to cover them all during the limited periods of the migrations. For this reason many of our fall records are very incomplete and misleading as to the comparative abundance of certain species. A large number of the lakes in the county are known to swarm with wild-fowl during the fall migration, but as these lakes are seldom visited by others than hunters and fishermen it has been hard to secure reliable data on the various species frequenting them at that time.

Some species, the majority of which breed outside of the county, are known to nest here occasionally. Such species have been indicated in the list by an asterisk (*). Records of first arrivals of these irregular breeders are consequently open to error owing to the difficulty of determining which are summer residents and which transients. It will also be noticed that species have been included which in reality are occasional winter visitants and not regular migrants. Of these the Snowy Owl, Saw-whet Owl, Evening Grosbeak, Pine Grosbeaks, Redpoll, Crossbills, Snowflake and Bohemian Waxwing are the most noteworthy. Gannets, Double-crested Cormorant and Caspian Tern are merely occasional visitants, although it is possible that more extensive field-work would show some of these to be more regular in their occurrence than the records would indicate.

In the tabulated list the dates given are for first arrivals. For some species these will be seen to vary considerably for the different years. No doubt more thorough observations would show greater uniformity in the records. The order of the species is that followed in the A. O. U. Check List (1910 Edition).

TABULATED RECORDS

	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915
Horned Grebe		Oct. 25	Sept. 3		Sept. 2	Sept. 15	Oct. 3	Oct. 5	Sept. 21	Sept. 9
* Pied-billed Grebe		Sept. 8	Sept. 4	Aug. 5	Aug. 3	Sept. 4	Sept. 29	Aug. 21		Oct. 15
Loon		Sept. 20	Oct. 5		Sept. 1	Oct. 14	Oct. 1	Sept. 29	Aug. 10	Aug. 22
Herring Gull			Sept. 13	Aug. 20	Sept. 7	Sept. 10		Sept. 15		
Bonaparte's Gull			Oct. 5		Aug. 25	Aug. 26				Aug. 9
Caspian Tern										Sept. 5
Common Tern			Sept. 1	Sept. 5	July 7	Aug. 3	Nov. 15		Aug. 27	Aug. 13
Black Tern				Aug. 14	Aug. 7		Sept. 7			
Gannet						Oct. 19				
Double-crested Cormorant						Oct. 20				
Merganser					Dec. 18	Dec. 1	Nov. 30		Dec. 1	Nov. 13
Red-breasted Merganser							Nov. 23			
Mallard							Nov. 10		Sept. 15	Nov. 28
* Black Duck	Sept. 2	Sept. 22	Sept. 2.	Oct. 16	Nov. 5	Oct. 22	Aug. 1	Oct. 18	Oct. 25	Nov. 25
Baldpate		Sept. 2		Aug. 30	Aug. 23	Aug. 10		Aug. 1		
Green-winged Teal			Oct. 10	Sept. 23	Sept. 24	Nov. 4		Oct. 18		
Blue-winged Teal		Oct. 1	Sept. 13		Oct. 29			Sept. 1		Oct. 17
Shoveller						Sept. 30				
Pintail						Nov. 4				
* Wood Duck		Oct. 25	Sept. 2	Aug. 14	Aug. 11	Aug. 4	Aug. 20	Aug. 21	Oct. 15	Oct. 23
Redhead	Oct. 11		Oct. 10							Oct. 30
Canvas-back	Nov. 10			Dec. 3						
Scaup				Nov. 7	Nov. 5					
Lesser Scaup				Dec. 3	Oct. 22	Oct. 28	Oct. 27		Dec. 1	Nov. 20
Golden-eye			Oct. 3		Nov. 26		Nov. 30			Oct. 23
Buffle-head		Sept. 17	Nov. 28			Oct. 28	Nov. 16		Oct. 12	Oct. 20
Ruddy Duck	Nov. 10	Oct. 20	Nov. 7							
Snow Goose	Nov. 14			Nov. 6		Nov. 1				

TABULATED RECORDS—Continued

	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915
Canada Goose		Oct. 20	Oct. 3	Oct. 24	Nov. 5	Oct. 30	Nov. 1	Oct. 5	Oct. 23	Oct. 18
Black-crowned Night Heron		Sept. 14	Oct. 26						Sept. 13	
King Rail			Sept. 30							
Yellow Rail		Sept. 22	Sept. 19	Oct. 9	Sept. 30	Sept. 15	Oct. 6	Sept. 26	Sept. 13	Sept. 1
*Coot	Sept. 10	Sept. 2	Sept. 26	July 17	July 16	Nov. 15	Oct. 31			
Wilson Snipe			Aug. 19							
Pectoral Sandpiper		Sept. 21	July 21	July 21	July 24	Aug. 20	Aug. 4	Sept. 26		
Least Sandpiper			Oct. 10							
Red-backed Sandpiper			Aug. 9							
Semipalmated Sandpiper		Sept. 21	Oct. 10	Oct. 16				Sept. 26		Oct. 21
Greater Yellow-legs	Oct. 9	Aug. 1	July 14	July 21	July 26	Sept. 17	July 26	Sept. 26		
Lesser Yellow-legs		Aug. 13	Aug. 9	July 17	July 15	Aug. 20		Sept. 26		Aug. 1
Solitary Sandpiper			Aug. 17	Aug. 24						
Semipalmated Plover			Oct. 15	Aug. 21	July 20	Sept. 15	Sept. 13	Sept. 14	Oct. 25	
*Turkey Vulture		Oct. 6	Oct. 14	Aug. 28	Sept. 17	Sept. 30	Sept. 20	Sept. 20		
Sharp-shinned Hawk			Sept. 1	Aug. 20	July 20		Aug. 17	Sept. 15		Oct. 30
*Cooper's Hawk	Dec. 15							Sept. 8		
Broad-winged Hawk			Oct. 5	Oct. 30						
Rough-legged Hawk		Sept. 22	Sept. 2	Aug. 31	Nov. 20	Sept. 30	Sept. 25	Sept. 8	Sept. 1	Sept. 28
Bald Eagle	Sept. 3		Oct. 5	Oct. 21	Sept. 3	Sept. 17	Sept. 15			Nov. 21
Osprey	Sept. 10							Jan. 5		Nov. 20
Barn Owl			Nov. 10	Dec. 1	Dec. 12					
*Short-eared Owl				Dec. 2	Nov. 30					
Saw-whet Owl						Dec. 20				
Snowy Owl				July 21	July 20	Sept. 22	Sept. 29	Sept. 19	Sept. 20	Sept. 6
Yellow-bellied Woodpecker	Dec. 18	Oct. 6	Sept. 8	Sept. 5	Aug. 16	Sept. 2	Oct. 8	Aug. 17	Aug. 21	Aug. 25
*Nighthawk	Sept. 20	Sept. 15	Sept. 5	Sept. 5						
Olive-sided Flycatcher			Oct. 7							

TABULATED RECORDS—Continued

	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915
Yellow-bellied Flycatcher					Sept. 6	Oct. 8	Oct. 13			Dec. 25
Prairie Horned Lark		Oct. 6	Oct. 4	Oct. 3		Oct. 25	Oct. 19			Oct. 30
Rusty Blackbird	Oct. 12	Oct. 6	Oct. 9	Oct. 16	Oct. 23	Jan. 19	Oct. 19			Nov. 13
Evening Grosbeak	Nov. 25		Nov. 28							
Pine Grosbeak		Jan. 1								
Purple Finch	Oct. 7	Sept. 22	Oct. 4	Oct. 3	Oct. 9	Oct. 15	Oct. 27			
Crossbill			Nov. 7							
White-winged Crossbill		Jan. 19								
Redpoll	Dec. 15	Jan. 27	Dec. 19	Jan. 1		Oct. 8	Jan. 17	Oct. 17		
Pine Siskin	Nov. 18		Sept. 26	Jan. 23		Feb. 10	Feb. 1	Mar. 3		
Snowflake		Dec. 25	Jan. 16	Nov. 1	Dec. 24	Oct. 8		Oct. 4		
Savanna Sparrow					Sept. 17					
Lark Sparrow			Oct. 11							
White-crowned Sparrow	Oct. 3		Oct. 4	Sept. 26	Oct. 9	Oct. 15	Sept. 27	Oct. 4		Oct. 15
White-throated Sparrow	Sept. 23		Oct. 4	Sept. 18	Sept. 25	Sept. 10	Sept. 15	Sept. 14		Oct. 16
Tree Sparrow	Sept. 23	Oct. 6	Oct. 5	Oct. 24	Oct. 23	Oct. 22	Oct. 27	Oct. 31	Oct. 15	Oct. 3
Slate-colored Junco	Sept. 23	Oct. 6	Sept. 20	Sept. 30	Sept. 29	Aug. 20	Sept. 29	Sept. 25		Oct. 21
Fox Sparrow	Oct. 12	Oct. 13	Oct. 4	Oct. 24	Oct. 2	Oct. 7	Oct. 27	Oct. 6		Oct. 23
Bohemian Waxwing										
Northern Shrike				Nov. 25						
Blue-headed Vireo	Sept. 26		Oct. 7	Sept. 26	Oct. 2	Sept. 24	Sept. 29	Sept. 25		Aug. 15
Black and White Warbler		Sept. 8	Aug. 23	Aug. 29	Aug. 22	Aug. 20	Aug. 28	Aug. 27		
*Golden-winged Warbler				July 20			Sept. 1			
Nashville Warbler			Sept. 9	Sept. 18	Sept. 7	Sept. 3	Sept. 15	Aug. 28	Sept. 25	Aug. 14
Orange-crowned Warbler	Sept. 20							Oct. 19		
Tennessee Warbler	Oct. 3							Aug. 27	Sept. 13	Sept. 22
Northern Parula Warbler	Oct. 14	Sept. 22	Sept. 4	Sept. 30	Sept. 7	Sept. 3	Sept. 22	Sept. 8		
Cape May Warbler		Sept. 15	Sept. 9	Sept. 11	Sept. 11	Aug. 28	Sept. 22	Aug. 30	Oct. 11	

TABULATED RECORDS—Continued

	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915
Black-throated Blue Warbler		Sept. 24	Sept. 24	Sept. 6	Aug. 30	Sept. 3	Sept. 3	Sept. 4		
Myrtle Warbler	Sept. 9	Oct. 6	Sept. 4	Sept. 26	Oct. 2	Sept. 16	Sept. 22	Sept. 4	Sept. 11	Oct. 15
Magnolia Warbler	Sept. 17	Sept. 6	Aug. 23	Aug. 29	Sept. 7	Aug. 20	Sept. 3	Sept. 4	Sept. 12	
Cerulean Warbler				July 20	July 20			Aug. 27		
Chestnut-sided Warbler	Sept. 27		Sept. 11	Sept. 3		Aug. 25	Sept. 3	Aug. 28		Sept. 5
Bay-breasted Warbler	Sept. 27		Sept. 4	Sept. 6	Sept. 7	Aug. 20	Sept. 3	Aug. 28		Sept. 29
Black-poll Warbler		Sept. 28	Sept. 9	Aug. 29	Sept. 7	Sept. 3	Sept. 1	Aug. 30	Sept. 11	Sept. 22
Blackburnian Warbler		Sept. 8	Aug. 23	Sept. 11	Aug. 30	Aug. 25	Aug. 28	Aug. 25	Sept. 11	Sept. 22
Black-throated Green Warbler		Sept. 8	Sept. 9	Sept. 6	Aug. 30	Aug. 25	Sept. 3	Aug. 30	Sept. 11	Sept. 22
Pine Warbler			Oct. 25					Sept. 12		
Palm Warbler		Sept. 1	Sept. 16		Sept. 15	Sept. 22	Sept. 3	Sept. 19		
Grinnel's Water-thrush			Aug. 24	Sept. 26		Aug. 20		Sept. 7		
* Louisiana Water-thrush					Aug. 3	Sept. 3		Sept. 14		
Connecticut Warbler						Sept. 20				
Mourning Warbler						Sept. 3				
Wilson's Warbler		Sept. 8			Aug. 30	Sept. 10		Sept. 4		Oct. 16
Canadian Warbler	Oct. 21		Oct. 1	Sept. 3	Aug. 29	Aug. 30	Aug. 23	Nov. 5		Sept. 22
Pipit	Sept. 21	Oct. 6	Oct. 10	Oct. 24	Oct. 7	Oct. 8		Oct. 13		
* Short-billed Marsh Wren			Oct. 4			Sept. 20				
Brown Creeper	Oct. 7	Sept. 26	Oct. 7	Oct. 17	Sept. 16	Sept. 10	Sept. 29	Sept. 12		Sept. 22
Red-breasted Nuthatch	Sept. 2	Oct. 21	Sept. 10	Sept. 26	Sept. 7	Aug. 31	Aug. 27	Aug. 27		Sept. 22
* Tufted Titmouse			Oct. 21							Jan. 2
Golden-crowned Kinglet	Sept. 23	Oct. 6	Oct. 2	Sept. 26	Sept. 21	Sept. 20	Sept. 29	Sept. 14	Oct. 11	Oct. 21
Ruby-crowned Kinglet	Sept. 30	Oct. 13	Sept. 27	Sept. 28	Sept. 21	Sept. 22	Oct. 13	Sept. 9	Oct. 12	Oct. 16
* Veery	Sept. 5							Sept. 7		
Gray-cheeked Thrush	Sept. 23	Sept. 19	Sept. 9	Sept. 7	Sept. 7	Sept. 3	Sept. 15	Aug. 30	Sept. 1	Oct. 16
Olive-backed Thrush		Sept. 15	Sept. 9	Sept. 6	Sept. 11	Sept. 13	Sept. 27	Sept. 5		
Hermit Thrush	Sept. 5	Oct. 2	Sept. 27	Oct. 3	Sept. 25	Sept. 28		Oct. 5		